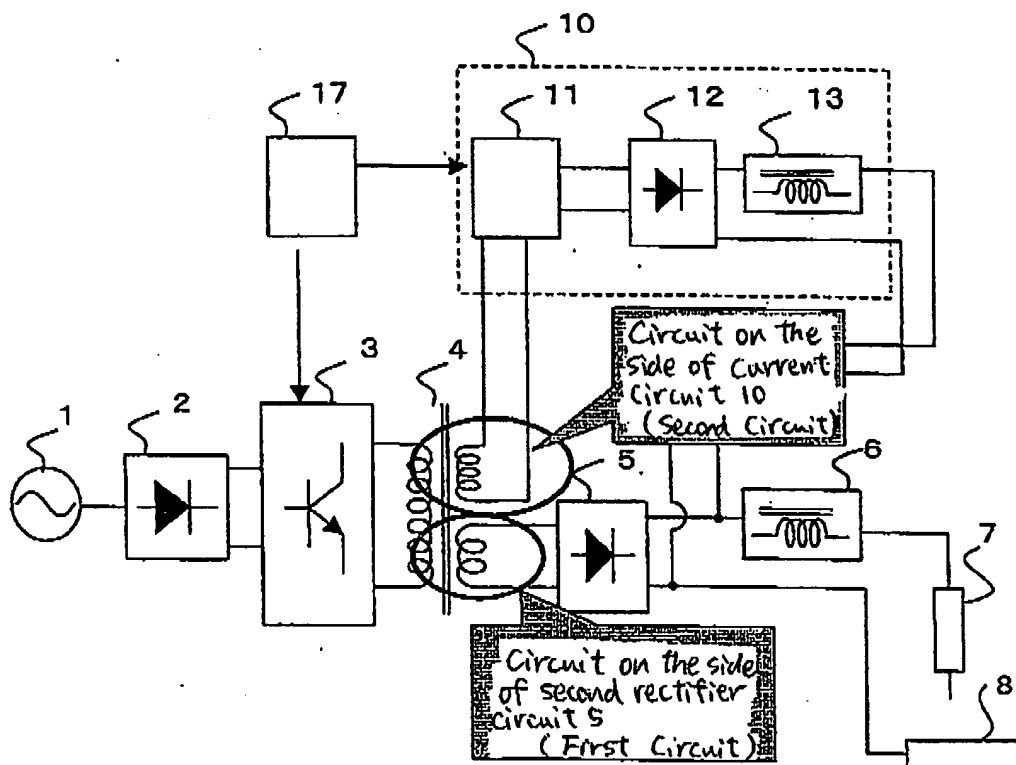


## APPENDIX 1



In the present invention, as described in the second embodiment, the voltage of the second circuit is higher.

As shown in Figs. 1 and 2 of the present invention, the number of windings of the transformer 4 is 2 in the first circuit, while that of the transformer 4 is 3 in the second circuit. Therefore, the voltage of the second circuit is 1.5 times higher than that of the first circuit.

When the voltage of the second circuit is higher, the current from the second circuit necessarily has more priority to flow to a torch 7 (44 in Fig.1) and a work 8. The feature of the present invention is to place priority on the current of the second circuit without fail, and also limit the current of the second circuit.

Placing priority on the current of the second circuit, the current which flows to the DC reactor 13 with a large reactance is constantly assured. Accordingly, the welding current is stabilized and the quality of welding is improved.

## APPENDIX 2

